UMESOV, Te/P., professor, doktor tekhnicheskikh mank; PASTREMAK, M.A.
inzhenor, reduktor; QOLOVIN, S.Ya., inzhener, reduktor; MODEL',
B.I., tekhnicheskiy reduktor

[Engineering methods of calculating stresses in processing
metals by pressure] Inzhenernye metody rashcheta usilii pri
obrabotke metallov davleniem. Moskva, Gos. nauchno-tekhn.izd-vo
mashinastroit.lit-ry, 1955. 279 p. (MLMA 8:11)

(Straims and stresses) (Metals) (Plasticity)

GULOVIN, S. YA

ALPEROV, K.V., doktor tekhnicheskikh nauk; ZENKOV, R.L., kandidat tekhnicheskikh nauk; KETLOV, V.I., inshener, redaktor; GOLOVIE, S.Ya., inshener, redsktor; POPOVA, S.M., tekhnicheskiy redaktor.

[Bunker installations: design, calculations and operation] Bunkernye ustanovki; proektirovanie, raschetti ekspluatatsiia.

Moskva, Gos.nsuchno-tekhn.isd-vo mashinostroit.lit-ry, 1955.

307 p. (MLRA 8:10)

(Conveying machinery) (Loading and unloading)

GOLOVIN, S.Ya.

MUBTSOV, N.N., laureat Stalinskoy premii, sasl.deyatel' nauki i tekhniki, doktor tekhnicheskikh nauk, professor; VASILWYSKIY.

P.F. retsensent, kandidat tekhnicheskikh nauk; KRYLOV, V.I. inzhener, redaktor; SINOROV, V.N., inzhener, redaktor; GOLOVIN, S.M., inzhener, redaktor; POPOVA, S.M., tekhnicheskiy redaktor; SUKOLOVA, T.F., tekhnicheskiy redaktor.

[Special types of founding] Spetsial'nye vidy lit'ia. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1955. 331 p. (Founding) (MLRA 8:10)

BOVIN, G.M.; IVASHKOV, I.I.; OLEYBIK, A.M.; TSERKOVNITSKIY, N.V.,
inshener, retsensent; COLOVIN, S.Ta., redaktor; MODEL', B.I.
tekhnicheskiy redaktor.

[Recalators] Mskalatory. Noskva, Gos.nsuchno-tekhn.ind-vo
mashinontroit.lit-ry. 1955. 351 p. (MLRA 8:10)

(Recalators)

GOLOVIN, S. YA

227

Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya

Prokatnyye stany: issledovaniya, raschet, konstruktsiya i osvoyeniye, vyp. 8 (Rolling Hills; Studies, Calculation, Design and Operation, No. 8) Moscow, Mashgiz, 1956. 258 p. (Its: Trudy kn. 83) 3,800 copies printed.

Ed.: Korolev, A.A., Candidate of Tech. Sciences; Editing of material on heavy machine building headed by: Golovin, S. Ya., Engineer. Tech. eds.: Tikhonov, A. Ya. and Matveyeva, Ec. N.; Corrector: Chudakov, I.B.

PURPOSE: This collection of articles is intended for rolling-mill designers, process engineers, scientists and instructors.

COVERAGE: This collection contains 19 articles on research and tests conducted by TsKEMM TsNIITMASH in 1945-1955. Results of the latest experiments conducted in the field of new rolling techniques are described.

Also, results are quoted of theoretical and experimental work done in order to determine amount of power required for rolling blooms, strips, car wheels and turbine-disc wheels. Articles by A.I. Tselikov and others describe the new TsKEMM design for 12-roll mills (built by TsNIITMASh), installed in a number of factories and successfully used

Card 1/6

Rolling Mills; Studies, Calculation, Design and Operation (Cont.) for rolling thin and extra-thin strips. V.F. Moseyev describes in his article a new arrangement for multiple rolling mills which allows continuous rolling at high speeds (up to 25 m/sec) and achieves a considerable increase in output. Articles by Turkin, D.S.; Pobedin, I.S.; Ehrapov, K.M.; Korolev, A.A., and Baranov, N.M. eleborate on some basic technological problems of rolling and on the determination of basic characteristics in rolling wide-flange shapes in experimental rolling mills. These problems are of timely interest in connection with the construction by the UZTM of mills for rolling wide-flange shapes (up to 1000 mm). Articles by Pobedin, I.S.; Baykov, V. I. and Drozd, Y.G. describe a new 12-stand continuous cold-rolling mill for thin wire (to 1.8 mm diameter). Results of the application of this new process are also given. Articles by Korolev, A.A. and Tret'yakov, A.V., quote results of research on and use of the new combination multiple-roll mill used in the "Hammer and Sickle" plant for rolling thin strip steel. Articles by Rokotyan, Ye.S., Meyerovich, I.M. and others describe results of experiments conducted on blooming, cold-rolling, duralumin-dressing, and car wheel rolling mills. Articles by Anisifirov, V.M.; Korolev, A.A.; Morozov, B.A.; Polezhayev, A.A., and Lawrov, A.A. give the results of research in the fields of durability and efficiency of metallurgical machinery. There are 57 references, of which 52 are Soviet, 3 USA, 2 German.

Card 2/6

n.114 W 4	lls, Studies, Calculations, Design and Operation (Cont.	227
_		
TABLE OF C INTRODUCTI		3
of Sc	Kov, A.I., Corresponding Member of the USSR Academy iences; Korolev, A.A. and Kuz'min, A.D., Candidates Sciences; Kogos, A.A., Engr.; Solov'yev, P.I., Multiple-Eall Mills, Built by TsKPMM TsNIITMASH	5
Hosey Conti	ev, V.F., Engr. Study of a High-Speed Mill for nuous Drawing of Low-Carbon Steel Wire	27
Khrap of Te Inves Rolli	ov, H.M., Korolev, A.A., Pobedin, I.S., Candidates ch. Sciences; Prikhod'ko, I.F., Engr. Experimental tigation of Forces Developed During Wide-Flange Shape ng	38
Theor	in, I.S., Khrapov, M.M., Candidates of Tech. Sciences. etical Determination of Moments Developed During Rollin ructural Shapes	8 55

ing Mills, Studies, Calculations, Design and Operation (Cont.) Khrapov, H.M., Cand. of Tech. Sciences; Baranov, N.M., Engr. Forces Acting on Rolls During Rolling of Wide-Flange Shapes	69
Turkin, D.S., Engr.; Khrapov, M.M., Cand. of Tech. Sciences. Hanufacturing Processes for Wide-Flange Shapes	77
Iroshnikov, A.N., Pobedin, I.S., Khrapov, M.M., Candidates of Tech. Sciences. Pressure Distribution in Rolling of Structural Shapes.	87
Pobedin, I.S., Cand. Tech. Sciences; Bayrakov, V.I., Engr., Drozd, V.G., Engr. Analysis of Continuous Cold-Rolling of Thin-Wire on a TsKHMM-17 12-Stand Rolling Mill	107
Korolev, A.A., Tret yakov, A.V., Candidates of Study of Cold-Rolling of Thin Stainless Strip on the TSKEMM Combination Rolling Mill	118

	ng Mills, Studies, Calculation, Design and Operation (Cont.)		
3 D D	cokotyan, Ye. S., Meyerovich, I.M., Candidates of Tech. cciences; Aleksandrov, A.A., Professor; Sakharov, A.I., ccent; Stukalov, M.I., Engr.; Yashchenko, V.A., Engr.; colmatov, F.M., Engr. Investigation of Power and Strength characteristics of Blooming Mills to Obtain Maximum Output		
	Repacity	134	
R	lokotyan, Ye. S., Cand. of Tech. Sciences. Reversible Cold-Rolling Mills	148	
M F	Seyerovich, I.M., Cand. of Tech. Sciences. Analysis of Forces Developed in the 1680-Type Cold-Reduction Mill	184	
М	nisfirov, V.P., Cand. of Tech. Sciences. Determination of Lean Pressures in Cold Rolling Without Pull and With cllowance for the Elastic Compression of Rolls	301	
5/6	Extowance for the Extractic Compression of Molls	194	

Lavro Flat-	v, P.P., Engr. Determination of Some Characteristics in Roll Cold Rolling	201
Korol	ev, A.A., Cand. of Tech. Sciences. Changes in the yield of Metals as Affected by the Grip Radius of Rolls	217
Moroze Kethoe Rollin	ov, B.A., Cand. of Tech. Sciences. Use of Photoelastic in the Study of Manufacturing Processes in Metal	225
Scien	nayev, A.A., Engr.; Morozov, B.A., Cand. of Tech. ces. Errors in Measuring Deformations in Metallurgical ment Parts	248
Meyero Engr.	ovich, I.H., Cand. of Tech. Sciences; Yershov, I.M., Slip-Ring Design for Measuring Torque	255
	Library of Congress	

COLCUIN, 5

Call Nr: TN 677 .K34

AUTHOR:

Kasenkov, M. A.

TITLE:

Forging Furnaces; Construction and Operation

(Kuznechnyye pechi; ustroystvo i rabota)

FUB. DATA:

Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo mashinostroitel'noy literatury, Moscow, 1957, 320 pp.,

6,000 copies

ORIG. AGENCY:

None given

EDITORS:

Editor: Teben'kov, B. P., Candidate of Technical Sciences; Editor of the Publishing House: Golovin, S. Ya., Eng., Tech. Ed.: Matveyeva, E.N.; Corrector: Kukharchik, V. P.; Reviewer: Frof. Mariyenwakh, L. M., Dr. of Technical Sciences

PURPOSE:

This book is designed for personnel of forging shops

and can be useful to students of technological

institutes.

COVERAGE:

The book furnishes useful information for personnel of forging shops in charge of maintenance and operation of heating furnaces. It covers the fundamentals

Card 1/7

of the technology of metals and forging processes,

Call Nr: TN 677 .K34 Forging Furnaces; Construction and Operation (Cont.) and discusses problems of fuel combustion and improvement of furnace efficiencies, of construction and repair of heating furnaces and appliances, and of the industrial safety and hy-giene connected with the operation of heating furnaces. This book contains Russian contributions. No personalities are mentioned; there are 57 bibliographic references, 56 of which are USSR, 1 English. TABLE OF CONTENTS: 3 Preface 5 Ch. I. Fundamentals of Forging Processes 5 Forging and pressing of metals 5 Forging properties of metals Heating of metals for forging and pressing 7 10 Ch. II. Raw Materials for Forging and Pressing 10 **Fundamentals** 13 Grades and trademarks of steel 17 Ingots Card 2/7

ш.		
-	Call Nr: TN	677 ·K34
Forging Furns	aces; Construction and Operation (Cont.)	20
-	Rolled iron Quality control of ingots and rolled iron	. 21
	Non-ferrous metals and alloys processed by forging and hot pressing	24
		28
Ch. III.		28
	Pundamentals	28
	Composition of fuel	31
	Analysis of fuel	33
	Heat value of fuel	36
	Solid fuel	47
	Liquid fuel	50
	Gaseous fuel	54
	Selection of fuel) ,
Card 3/7		
	<u>.</u>	

	•	
	Call Nr: TN 677	•K34
Forging Furns Ch. IV.	Fuel Combustion Fundamentals Calculations of combustion Combustion of solid fuel Combustion of pulverized coal fuel	57 57 61 70 87 95
CH. V.	Combustion of liquid fuel Combustion of gaseous fuel Heating Installations in Forging and Pressing Production Forges Forging furnaces	116 135 135 139
Ch. VI.	How Porging Furnaces Operate Efficient utilization of heat Heating of materials Theremore occurring in the steel structure	171 171 179 198
Card 4/7	during the forging process	

The second space. When	call Nr: TN	677 .K
LOLETHE LOT		200
	Cooling of forgings	201
	Tempering and normalizing of forgings	202
	Heating of non-ferrous metals	204
	Sizes of heating chambers	204
	Operating indexes for furnaces	
Ch. VT	I. How to Improve Furnace Efficiency	211
011. 12	Fundamentals	211
	Air-and-gas-preheaters	211
	Waste-heat boilers and water heaters	228
	Utilization of exhaust flue gases for preheatin materials	53°0 R
	Reduction of heat losses by adequate con- struction of furnace refractories	231
	High-speed heating	233
Card 5/7	Non-oxidizing heating	239

irnaces; Construction and Operation (Cont.)	243
Construction and Repair of Furnaces	243
Refractories	247
Thenlating materials	253
Construction of furnace refractories	258
Repair of furnaces	260
Servicing of Furnaces	260
Fundamentals	261
Operation of furnaces	267
Efficient utilization of furnaces	,
Methods of controlling operating conditions of	270
Automatic control of furnace thermal conditions	277
Material handling equipment for loading and unloading of stock	283
	Repair of furnaces Servicing of Furnaces Fundamentals Operation of furnaces Efficient utilization of furnaces Methods of controlling operating conditions of furnaces Automatic control of furnace thermal conditions Material handling equipment for loading and unloading of stock

Appendixes Bibliography AVAILABLE: Library of Congress Card 7/7	Ch. X.	Call Mr: TN 677 naces; Construction and Operation (Cont.) Industrial Safety and Hygiene Fundamentals Prevention of heat Madiation from furnaces Safeguarding of furnaces	289 289 291 294
,	Bibliography		296
Card 7/7		Library of Congress	
	Card 7/7		

KRIVOSHNYHV, Andrey Yevdokimovich, professor, doktor tekhnicheskikh nauk; GDLOVIH, S. Za., redaktor; SIDCROV, V.N., inzhener, redaktor izdatel Etva; MIKHAYLOVA, V.V., tekhnicheskiy redaktor

מתומידוו, ק. או.

[Gast rolls; theoretical and technological principles of production]
Litye volki; teoreticheskie i tekhnologicheskie osnovy proizvodstva.
Maskva. Gee.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 360 p.
(Rolls (Iron mills))

AUTHOR:

Golovin, S.Ya.

SOV/128-58-12-18/21

TITLE:

Twenty Years of Literature on Foundry Practice (Literatura

po liteynomu proizvodstvu za 20 let)

PERIODICAL:

Liteynoye proizvodstvo, 1958, Nr 12, pp 27 - 28 (USSR)

ABSTRACT:

Information is given on the activities of the Mashgiz publishing house during the 20 years of its existence. The most important works on the foundry practice published dur-

ing this period are listed.

Card 1/1

STEBAKOV, Ye.S., kand.tekhn.nauk; TARUTIN, V.Ya., kand.tekhn.nauk; OOLOVIN,
S.Ya., inzh.

S.Ya., inz

HIKIFOROV, Vikentiy Markianovich, insh.; POGODIN-ALEKSEYEV, Georgiy
Ivanovich, prof., doktor tekhn.nauk; PROSKURYAKOV, Vasiliy
Alekseyevich, dotsent; PROSKURYAKOV, Vladimir Aleksandrovich,
dotsent; WEACHEV, Konstantin Ivanovich, dotsent; GOLOVIN, S. Ya.,
red.; SLAVIM, D.O., red.; NAUMOV, K.M., tekhn.red.

[Technology of the most important branches of industry] Tekhnologiia vashneishikh otraslei promyshlennosti. Moskva, Izd-vo TPSh i AON pri Tak KPSS. Pt.1 [Metallurgy and metallography; textbook for students in advanced perty schools] Metallurgiia i metallovedenia; uchebnoe posobie dlia vysshikh partiinykh shkol. 1959. 271 p.

(Metals) (MIRA 12:4)

25(1)

PHASE I BOOK EXPLOITATION

SOV/2399

Golovin, Sergey Yakovlevich

Osobyye vidy lit'ya; kratkize spravochnyye materialy (Special Types of Casting; Short Reference Materials) Moscow, Mashgiz, 1959. 462 p. Errata slip inserted. 15,000 copies printed.

Reviewers: N.N. Hubtsov, Doctor of Technical Sciences, Professor, Honored Worker in Science and Technology, and P.M. Platonov, Engineer; Ed.: G.F. Balandin, Candidate of Technical Sciences; Ed. of Publishing House: T.L. Leykina; Tech. Ed.: L.V. Schetinina & Managing Ed. for Literature on Technical Machine Building (Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for foundry workers.

COVERAGE: This book contains basic information on special casting methods, a brief description of theoretical casting principles, technological processes and designs, and technical specifications for equipment. The material in the book is so presented as to facilitate the selection of the proper casting methods for any given case. The author also discusses casting of nonmetal-

Special Types of Casting (Cont.)	SOV/2399
Clay-mold casting Brick-mold casting Metal-ceramics-mold casting Plaster-mold casting Concrete-mold casting Graphite-mold casting Stone-mold casting	131 132 135 137 138 139 140
Ch. III. Casting in Metallic Molds Chill casting Pressure casting White cast-iron casting Vibration casting Casting of dry battery cells	141 141 193 233 250 255
Ch. IV. Rotation Casting Centrifugal casting Centrifuge casting	256 256 278
Ch. V. Slush Casting Vacuum casting Card 3/5	279 279

Special Types of Casting (Cont.)	SOV/2399
Dip dasting	29
Press-die casting	29
Squeeze casting	30
Splash casting	31
Ch. VI. Continuous Casting in Cooled Molds	31
Shape casting	31
Pipe casting	31
Sheet casting	32
Casting in water-cooled molds	32
Ch. VII. Casting of Specific Items	33
Casting of molds	33
Casting of pipe	34
Casting of piston rings	35 36 36
Casting of magnets	3 6
Casting of shot	36
Casting of radiators	37
Casting enameled items	37
Armor casting	40
Card 4/5	

CIA-RDP86-0005158200005-5

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PHASE I BOOK EXPLOITATION

807/5647

Golovin, Sergey Takovlevich

Kratkiy apravochnik liteyshchika (The Foundryman's Concise Handbook) Moscow, Mashgiz, 1960, 375 p. 25,000 comies printed.

Reviewer: M. M. Vyshemirskiy, Engineer; Ed. of Publishing House: A. I. Varhovetakaya; Tech. Ed.: P. S. Frankin; Managing Ed. for Literature on Machine-Building Technology (Leningrad Department, Mashgiz): Ye. P. Manmov, Engineer.

FURPOSE: This handbook is intended for foundrymen and students at mechanicalengineering schools of higher education.

COVERAGE: Concise information on sand casting (primarily numerical data in the form of tables and diagrams) is presented. The handbook also contains general information on making simple calculations as well as data on molding materials, mixtures and their composition, washes, various types of patterns, flasks, molds, gating systems, charge materials, refractories, fuels, etc. No personalities are mentioned. There are 65 references, all Soviet.

Card 1/5

EIDUIYA, Pavel Nikolayevich; GOLOVIN, S.Ya., red.; GOLYATKINA, A.G., red.

isd-va; ISLENT'YEVA, P.G., tekhn. red.

[Technology of steel casting] Tekhnologiia stal'nykh otlivok. Moskva, Gos. nauchno-tekhn. isd-vo lit-ry po chernoi i tsvetnoi metallurgii; 1961. 352 p. (MIRA 14:7)

(Steel castings) (Founding)

GOLOVIN, Sergey Yakovlevich, kand. tekhn. nauk; MEL'NIKOVA, Zh.M., red.

[Progressive foundry practices] Progressivnye vidy lit'ia.
Moskva, Znanie, 1964. 31 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.23)

(MIRA 17:11)

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	GOLOVIN Y.	
	Gomtribution of innovators. Ckhr. truda i sots. strakh. no.4:13 Ap *63. (NIRA 16:4)	
	1. Chlen mawodskogo komiteta savoda "Svetlana".	
	(Glass blowing and working-Bygienic aspects)	
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	· · · · · · · · · · · · · · · · · · ·	

GOLDVIN V.

84-5-9/42

AUTHOR:

Golovin, V., Assistant Commander of a Flight Service Unit (Voronezh)

TITLE:

Work Organization of a Composite Squadron (Organizatsiya raboty

svodnogo avisotrysda)

PERIODICAL: Grazhdanskaya Aviatsiya, 1957, Nr 5, pp. 12-14 (USSR)

ABSTRACT:

The article discusses one instance of the use of the special-purpose aviation in spraying chemicals in the Volga region. Last year (1956) a composite squadron of the Moscow aerial photography and special-purpose aircraft was used in Saratov oblast for pest extermination operations. The teams of the squadron maintained their original personnel: it was not believed advisable to get personnel from different units to work as a team. The operational group supervising the operations was composed of the commanders of the participating teams, the assistant commander of the flight service unit (Moscow adm.) and an engineer for special-purpose assignments. First the operational group got in touch with the oblast's farm authorities, checked the availability of insecticides, established the scope of operations and got acquainted with the co-ordinating personnel representing the local authorities. The job was organized through the MTSs; the Oblispolkom sent a circular to each MTS concerned informing them of their duties. The squadron used different types of aircraft, viz. An-2, YAK-12, and PO-2. Of the 7 rayons to be sprayed by the planes, 6 were on the right bank and 1 on the left bank of the Volga. The right-bank area was furrowed by ravines, the

Card: 1/3

84-5-9/42

Work Organization of a Composite Squadron

left-bank rayon was flat. Hence, it was decided to use the An-2 in the right-bank area since the An-2 plane has more power and climbs faster than other planes. This latter fact was important in a region where many sirfields were located in valleys. However, since the number of A-2 planes was not sufficient, only the most difficult areas were assigned to this type of plane; therefore, one rayon was taken care of by the team of An-2 planes under comrade Dorokhov, two other rayons - by the team under com. Kozakov. Two additional right-bank rayons were assigned to the team under comrade Shcherbinin, using not only An-2, but also Po-2 planes. The last right-bank rayor, closest to the staff, was assigned to the team under comrade Ivashkevich employing Po-2 and WAK-12 planes. The only left-bank rayon was taken care of by a team of Po-2 planes, commanded by com. Dorofeyev. Two days were spent by each team to get acquainted with the conditions of flight and the tasks to be performed. Comrade Trutayev is mentioned as chief of the operational group. The operations were carried out from the base airfield, the time of departure and landing being appointed in advance for each team. Returning back to the base, 3 or 4 planes could land and park within 10-15 minutes, freeing the landing area for the next group. Crews under comrade Shonin (An-2) and Merkukhin (Po-2)

Card: 2/3

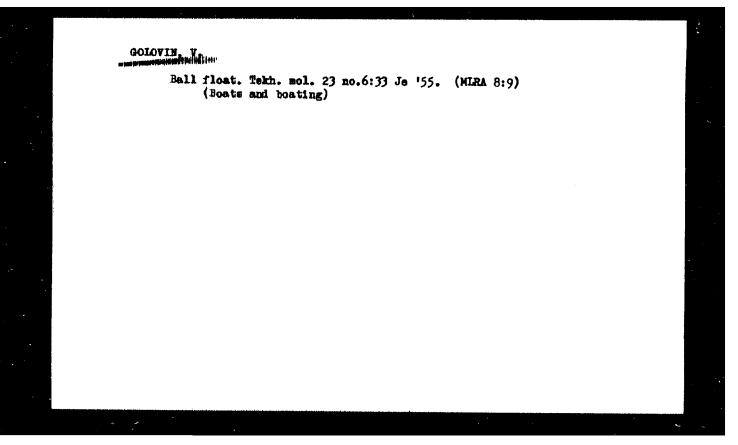
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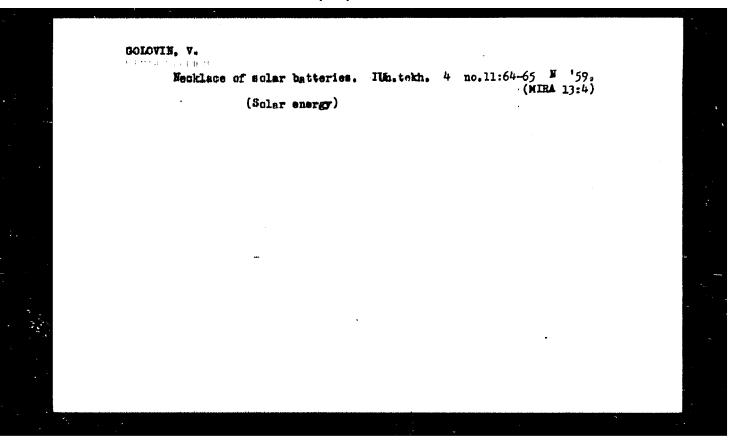
Work Organization of a Composite Squadron

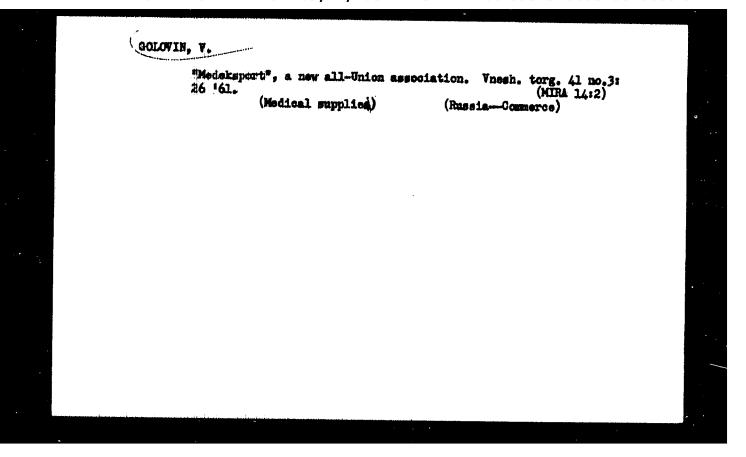
covered 15,350 and 5,792 ha, respectively. Average coverage (in hectares) per plane was 11,016 for An-2, 5,112 for YAK-12, and 4,350 for Po-2. Photo (taken by Ye. Shulepov) shows an An-2 plane spraying a field.

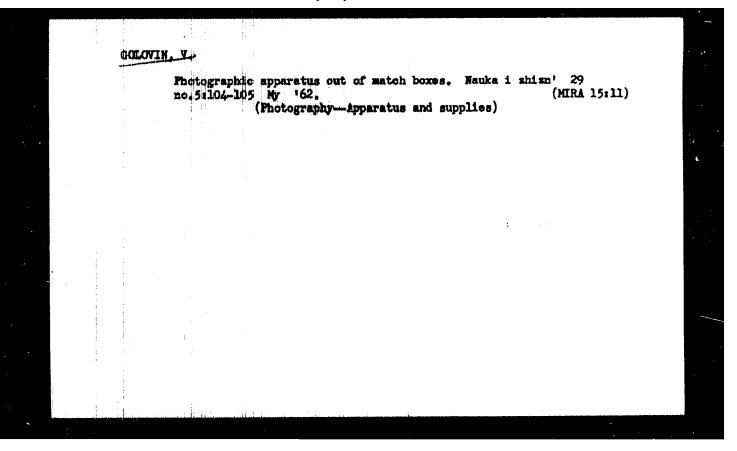
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Card: 3/3







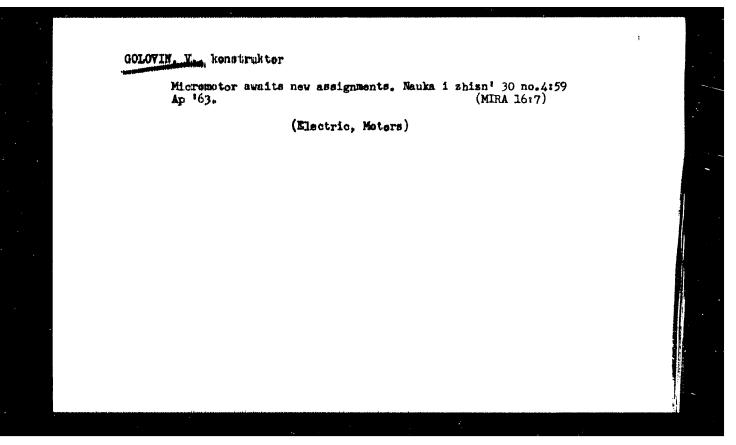


GORDON, M.; GCLLOVIN, V.

Special equipment for campers. Tekh.mol. 29 no.6:30-31 '61.

(MIRA 14:7)

(Gamping---Outfits, supplies, etc.)



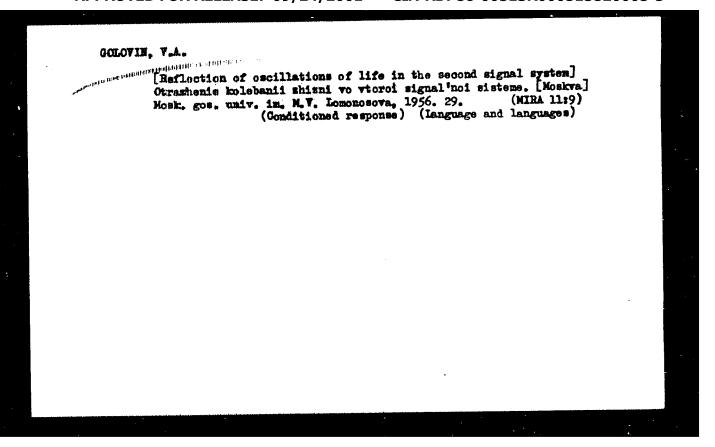
PRZHIYEMSKIY, Yu., insh.; DEMIN, V., kand.fisiko-matem.nauk; VASIN, N., kand.med.mauk, nauchmyy sotrudnik; GOLOVIN,V.; DELONE, B., master sowetskogo al'pinisma

Bight answers to one questions how to you rest? Nauka i shisn' '29 no.7:15-17 Jl '62. (MIRA 16:6)

1. Sotrudmik Gosudarstvennogo astronomicheskogo instituta imeni P.K.Shtermberga (for Demin). 2. Institut neyrokhirurgii imeni akademika N.W.Burdenko AMN SSSR (for Vasin). 3. Sotrudnik Moskovakogo gosudarstvennogo universiteta (for Golovin).
4. Chlen-korrespondent AN SSSR (for Delone).
(Rest)

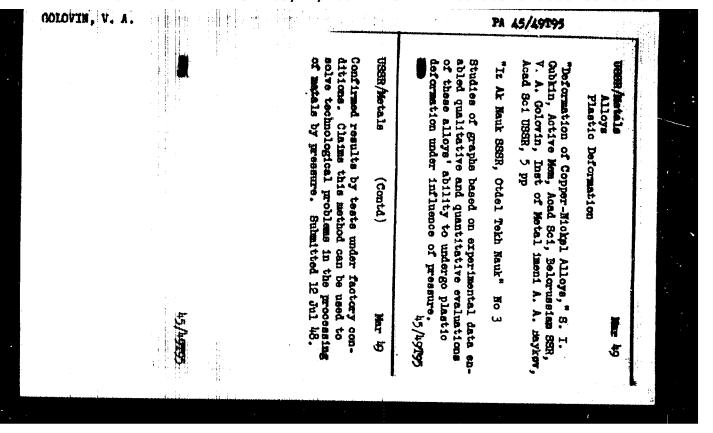
GOLOVIN, V. A., Cand Agr Sci -- (diss) "Effect of various types of reading upon productive qualities of cattle." Perm', 1957. 15 pp (Min ax Agr USSR, Perm' Agr Inst im D. N. Pryanishnikov), 120 copies (KL, 52-57, 109)

- 87 -



"APPROVED FOR RELEASE: 09/24/2001

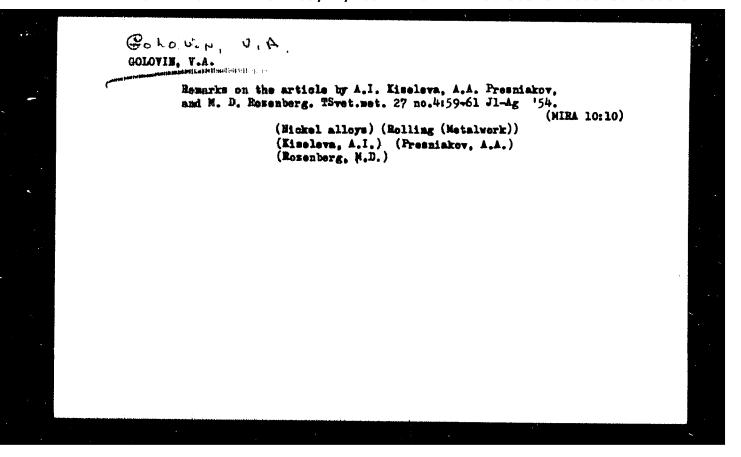
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COLOVEN, V. A.

"Deformability of Copper-Nickel Alloys." Thesis for degree of Cand. Technical Sci. Sub 13 Mar 50, Moscow Inst of Monferrous Metals and Gold Imeni M. I. Kalinin

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering IK Moscow in 1950. From Vechernyaya Moskva. Jan-Dec 1950.



SOV /137-58-12-24463

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 73 (USSR)

AUTHOR: Golovin, V. A.

TITLE: An Investigation of the Process of Forging Coming Tools (Issledovaniye

protsessa shtampovki chekanochnogo instrumenta)

PERIODICAL: Sb. tr. Vses. n.-i. in-t Gosznaka, 1957, Vol 1, pp 250-270

ABSTRACT: An analysis is made of the process of manufacture of coining tools,

and the influence of a number of factors upon the quality thereof is determined. An analysis of the process of deformation in the conversion procedure is made. The nature of the metal flow is studied experimentally with the aid of specimens to which a coordinate grid has been applied, and also by macroanalysis and measurement of change in hardness. The following is established: 1) The influence of the taper of the blank, strain rate, and lubricant upon the pressure and the degree to which the die fills; 2) the effect of manufacturing technique upon the strength of the finished tool. Practical recommendations are advanced with respect to utilization of the most rational methods of conversion in accordance with the shape and size of the blank.

Card 1/1

M. Ts.

DETCH, M.Ye., doktor tekhn.nauk, prof.; KAZINTSEV, F.V., inzh.; GOLOVIN, V.A., inzh.

Automatic computing device for solution of energy-loss equations used in the study of turbine bladings. Energomashinostroenie 5 no.3:31-34 Mr. 159. (MIRA 12:3)

(Turbines)

7 14 AUTHORS:

Golovin, V. A., Nessonov, V. D.

SOV/32-25-1-43/51

TITLE:

Heat Resistant Wire Tension Cell on Glass Cloth (Termostoykiy provolochnyy tenzodatchik na stekloshpone)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 1, pp 117-119 (USSR)

ABSTRACT:

At present a large number of tension cells for higher temperatures are known (Refs 1,2) which do, however, not have the required properties. The tension cells DK on paper basis with the synthetic resin BF can be used up to 150-200° only as the carbonization of the paper destroys the adhesion of the cell to the metal sample. Experiments showed that glass cloth is a better basis than paper (Ref 3); the former is a material which consists of two layers of glass threads glued together with the tension cells ST are described. A polymerized glass cloth of a thickness of 40-60 \(\mu\) is used. The cellular grid is made, as usual, of constantan wire (diameter 30 \(\mu\)) and the glue BF-2 is applied. It is pointed out that the fibers of the cloth should run perpendicularly to the grid wires. After the cell has been produced and fixed the place is covered with PKE-14 enamel (Ref 4). To determine the properties of the tension cell some

Card 1/2

Heat Resistant Wire Tension Cell on Glass Cloth

507/32-25-1-43/51

investigations were carried out. With an increase in temperature of up to 200° the sensitivity decreases a little (from 2.01 to 1.93) and remains constant up to 300°. The upper temperature limit is given to be 350°, at which the ST-cells operate only for 1.5-2 hours.

There are 4 references, 3 of which are Soviet.

Card 2/2

GOLOVIN K.A.

PHASE I BOOK EXPLOITATION

SOV/5530

- Smiryagin, A.P., N.Z. Dnestrovskiy, A.D. Landikhov, N.N. Kreyndlin, G.N. Krucher, V.A. Golovin, B.L. Urin, and V.N. Gol'dreyer
- Spravochnik po obrabotke tsvetnykh metallov i splavov (Handbook on the Processing of Nonferrous Metals and Alloys) Moscow, Metallurgizdat, 1961. 872 p. Errata slip inserted. 9,300 copies printed.
- Ed. (Title page): L. Ye. Miller, Candidate of Technical Sciences; Ed. of Publishing House: K. D. Misharina; Tech. Ed.: M. K. Attopovich.
- PURPOSE: This handbook is intended for technical personnel of metalworking and machine-building plants, design organizations, scientific research institutes, and laboratories, and for students at schools of higher technical education.
- COVERAGE: The handbook discusses the physicochemical and mechanical properties of certain elements and the composition and properties of

Card 1/9.

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515820005-5"

3

GOLOVIN, V.A.; KANTSEL', A.V.; SHUMILIN, M.V. Some structural characteristics of the exogenic uranium mineralisation control in sedimentary and tufaceous rocks, Gecl. rud. mestorosh. no.2:125-129 Mr-Ap '61. (MIRA 14:5)

NORITSIN, 1.A., doktor tekhn. nauk, prof.; COLOVIN, V.A., kand. tekhn.
mauk, dotsent; BAZIN, A.S., inzh.

Development of processes of closed-die forging. Vest, mashinostr.
43 no.12:38-42 D 63.

(MIRA 17:8)

CCLUVIN, Vladimir Andreyevich, kand. tekhn. neuk; Ul YANGVA;
Elisa Khainovna, kand. tekhn.nauk; Machikov, Ye.A., rec.

[Properties of noble metals and allovs; a handbook] Svoistva blaggorodnykh metallov i splavov; spravo innk. Messkva, Izd-vo "Metallurglin," 1964. 187 p. (Vil. 1811)

Methods for studying models of the terminal stages of steam turbines operating on wet steam. Teploenergetika 12 no.3:71-75 km '65. 1. Maskovskiy energeticheskiy institut.	Methods for studying models of the terminal stages of steam turblines operating on wet steam. Teploenergetika 12 no.3:71-75 Mr '65. (MIRA 18:6)		6				
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NORITSYN, I.A., doktor tekhn.nauk, prof.; GOLOVIN, V.A., kand.tekhn.nauk, dotsent; AKARO, I.L., insh.

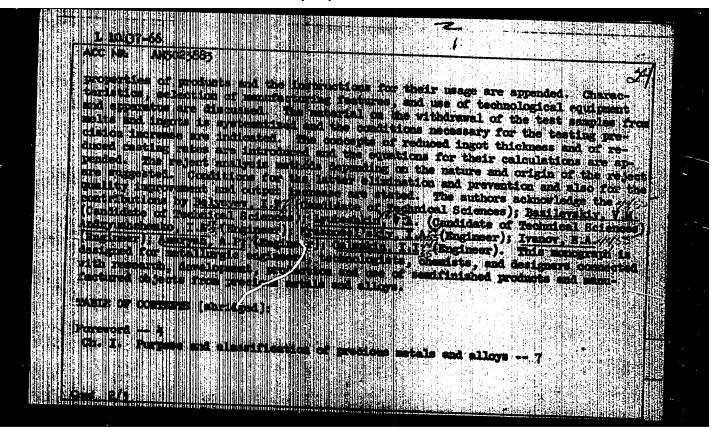
Heat release duirng die forging and pressing. Vest.mashinostr. 45 no.9:59-64 \$ *65. (MIRA 18:10)

GOLOWIN, V.A., inzh.; BAGAUTDINOV, R.R., inzh.

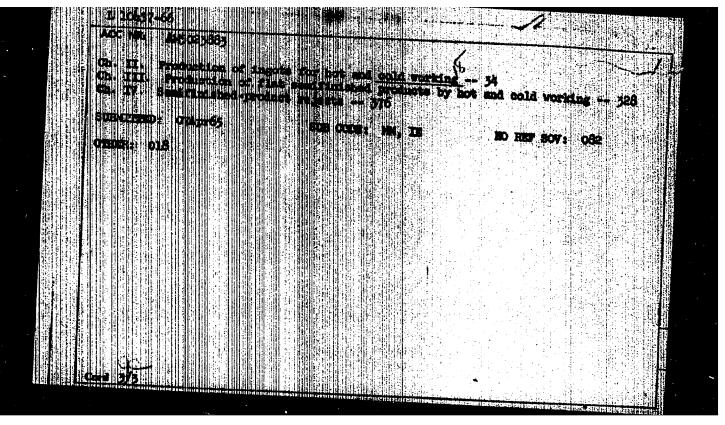
Air-hlast switches with simplified drives. Elek. sta. 36 no.12:
61-63 D *65. (MIRA 18:12)

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ACC NE AP7003846 SOURCE CODE: AUTHORS: Noritern, I. A. (Doctor of technical sciences, Professor); Golovin, Y. UR/0122/67/000/001/0054/0057 (Candidate of tempical sciences, Docent); Bukin-Batyrev, I. K. (Engineer) ORG: none Trues: Increasing the extrudability of structural carbon steels for cold extrusion SOURCE: Vestnik mahinostroyaniya, no. 1, 1967, 54-57 TOFIC PAGS: metal extrusion, carbon steel, plastic deformation, ferrite, pearlite, ammealing, hardness, metal heat treatment/ 10 carbon steel, 20 carbon steel, 35 ABSTLACT: This work establishes a quantitative relationship between the conditions of preliminary heat treatment of blanks and the cold extrudability of the most widely used structural carbon steels 10, 20, 35, and 45. The low-carbon steels (10, 20) were subjected to subor tipal and superoritical annealing. The high-carbon steels (35, 45) were subjected to modic supealing and to other combined treatments. The tests of 10 steel showed that, in the presence of supercritical (740-760c), cyclic (4 cycles from 650 to 780C) and high-temperature (1050C) annealing, strong grain growth occurred, which reduced the hardness (see Fig.). It was established that the maximum increase in extrudebility is achieved for 10 steel with supercritical annealing, for 20 steel with normalization and annealing, and for 35 and 45 steels with cyclic annealing and SUB CODE: 13, /1/SUBM DATE: MONEY. TINC: 621 ORZ 1.660 2/2

GOLOVIN, V.D.

Riesz's basis of exponential functions. Dokl.AN SSSR 145 no.1: 27-30 Jl '62, (MIRA 15:7)

1. Khar'kovskiy gosudarstvennyy universitet imeni A.M.Gor'kogo. Predstavleno akademikom S.N.Bernshteynom. (Functions, Exponential)

	COLOVIN, V.D.	
	Generalization of the concept of periodic continuation. Doki. AN SSSR 149 no.3:502-504 Mr '63. (MIRA 16:4)	
	l. Khar'kovakly gosudarstvennyy universitet im. A.M.Gor'kogo. Predstavlene akademikom S.M.Bernshteynom. (Functions) (Sequences (Mathematics))	
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GOLOVIN, V.D.

Functions periodic in the mean. Dokl. AN SSSR 150 no.1:17-20 My '63. (MIRA 16:6)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M.Gor'kogo. Predstavleno akademikom S.N.Bernshteynom. (Functions, Periodic)

GCLOVIN, V.D.

Stability of the base of an exponential function. Dokl. AN Arm. SSR 36 no.2:65-70 164. (MIRA 17:3)

1. Khar kovskiy gosudarstvennyy universitet imeni Gor kogo. Predstavlene skademikom AN Armyanskoy SSR, M.Dzhrbashyanom.

"The Krasneyarsk Forest Steppe (Physicogeographical Characteristics)." Cand Deeg Sci, Tomsk State E. Tomsk, 1954. (RZhDeel, Nar 55)

SC: Sum. Do. 870, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

GOLOVIN, V.M.

Characteristics of the frequency of and the particular features of diseases of the blood and hemopoietic organs according to prosection autopsy data in Kishinev. Zdravookhranenie 5 no.4:36-10 Jl-Ag 162.

1. Is kafedry patologicheskoy anatomii (zav. - dotsent V.Kh. Amestiadi) Kishinevskogo meditsinskogo instituta.
(KISHINKV....HEMDPOIRTIC SYSTEM...DISEASES) (KISHINEV...BLOOD...DISEASES)

GOLOVIN, V. M., Candidate Med Sci (diss) -- "Gastric and duodenal ulcer caused by atophan (Pathogenesis, morphology)". Kishinev, 1959. 15 pp (Kishinev State Med Inst, Chair of Fath Anatomy), 250 copies (KL, No 25, 1959, 140)

- 1. GOLOVIN, V. M.
- 2 USSR (600)
- 4. Geography & Geology
- 7. Works; voyage on the boat "Diana," Izd. Glavsevmorput, 1950.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

10.2000 26.2182 AUTHORS: 84043 \$/147/60/000/003/001/018 BO22/B420

TITLE:

Kudryashev, L.I. and Golovin, V.M.

The Influence of the Dissipation of Mechanical Energy on the Coefficient of Hydraulic Resistance and on the Flow Rate Through Narrow Ducts in the Laminar Flow

PERIODICAL: Ezvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya tekhnika, 1960, No.3, pp.3-11

TEXT: A quantitive assessment is made of the influence of the dissipation of mechanical energy in the laminar flow of liquids through narrow ducts whose length to is so large compared with the height 2h that the contribution of the initial portion of the duct to the total flow resistance may be considered as negligible. The equations of motion, continuity and energy for the laminar non-isothermal flow are given in vectorial form by Eq.(1), in which most of the symbols have their usual meaning except I, which is the mechanical equivalent of heat, and S, which is the tensor of the rate of deformation of the fluid. Assuming that the velocity vector v satisfies the condition of Eq.(3), then it can be expressed by the relation of Eq.(2); by considering only

84043 \$/147/60/000/003/001/018 B022/B420

The Influence of the Dissipation of Mechanical Energy on the Coefficient of Hydraulic Resistance and on the Flow Rate Through Narrow Ducts in the Laminar Flow Regime

stationary problems and neglecting the body forces F. Eq.(1) can be transformed into Eq.(5). Although Eq.(5) appear more involved than Bq. (1), they are, however, more tractable as regards both the admission of simplifying assumptions for their solution and the analysis of these solutions. In particular, Eq.(5) facilitate the selection of problems which can be solved by means of separation of variables. Some 2-dimensional flows are then considered which satisfy Eq.(2). First, the flow is studied in a narrow duct, with the axis of symmetry along x-axis, when the temperature of the bottom wall T_{w1} is different from that of the top wall T_{w2} , the conditions are sought which would make the flow to be a function It is shown that such a flow is possible of pressure p enly. only at some distance downstream from the entry section, i.e. where the flow is stable. Next, the problem of dissipation of mechanical energy in the region of this stable flow is tackled under the assumption that the temperatures of both walls are equal and the pressure gradient along the duct is constant. Card 2/4

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S/147/60/000/003/001/018 B022/E420

The Influence of the Dissipation of Mechanical Energy on the Coefficient of Hydraulic Resistance and on the Flow Rate Through Narrow Ducts in the Laminar Flow Regime

Eq. (1) transform then to Eq. (8) with boundary conditions as in Eq. (9). Assuming further that the temperature gradient between the walls and the fluid is not large (\$\Delta \pi 0^{\circ} C\$) and that the temperatures of the liquids used in practice (water, oil, spirits, lubricants etc.) are of the order of 20 to 100°C, then - as shown im Ref.2 and 3 - the viscosity may be expressed by Eq. (10) or (11), while the thermal conductivity may be considered as constant, i.e. \$\Delta \pi \lambda \text{w}\$. With these assumptions, Eq. (8) may be integrated as shown on p.7, giving eventually the velocity of the flow in Eq. (18) and the rate of flow in Eq. (19) or Eq. (20). These results are then compared with the known classical solutions, Eq. (21), and it is shown that the two results are identical in the limit, resistance is evaluated. This is done by taking into account the change in the mean velocity of the flow produced by the change in

84043 \$/147/60/000/003/001/018 B022/B420

The Influence of the Dissipation of Mechanical Energy on the Coefficient of Hydraulic Resistance and on the Flow Rate Through Narrow Ducts in the Laminar Flow Regime

the viscosity of the fluid, when compared with the mean velocity as resulting from Eq.(21). This leads to Eq.(29), (30) and (31), the last formula being the actual correction due to dissipation of the mechanical energy. There are 1 figure and 4 Soviet references (one is a translation into Russian of Janke and Emde's tables).

ASSOCIATION: Kuybyshevskiy aviatsionnyy institut Kafedra aerogidrodinamiki (Kuybyshev Aviation Institute, Chair of Aero- and Hydrodynamics)

SUBMITTED: February 29, 1960

Card 4/4

88240

S/152/60/000/012/006/007 B027/B068

10.2000 AUTHORS:

Kudryashev L. I., Golovin V. N.

TITLE:

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Effect of Dissipation of Mechanical Energy on the Hydraulic Resistance Coefficient for Laminar Flow in Tubes With Circular Cross Sections

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, 1960, 3- No. 12, pp. 105 - 112

TEXT: It is frequently necessary to determine the resistance to laminar flow in long pipelines. Heating of the liquid by internal friction may be rather important, if a highly viscous product is concerned. Hence, it is necessary to determine quantitatively the effect of mechanical energy dissipation on the output of the pipe, and the resistance coefficient. In this paper, an attempt referring to this is described, since this problem has not yet been solved, with the exception of some general data given by the academicians V. G. Shukhov and L. S. Leybenzon. A number of equations was established, from which follows that the classical Stokes solution is

Card 1/3

Effect of Dissipation of Mechanical Energy S/152/60/000/012/006/007 on the Hydraulic Resistance Coefficient B027/B068 for Laminar Flow in Tubes With Circular Cross Sections

a first approximation. The calculations show that the effect of the mechanical energy dissipation on the throughput and the resistance coefficient is the greater, the smaller the pipe diameter and the more viscous the fluid. Thus, the throughput of the pipe may be increased by 10 to 15%. The effect of energy dissipation may be, therefore, calculated from equations 30 and 31, respectively:

$$\frac{Q}{Q_1} = \frac{2}{\xi} \cdot \frac{J_*(\xi)}{J_3(\xi)} \qquad (30); \qquad D = \left|\frac{\xi J_3(\xi)}{2J_*(\xi)}\right|^2 \qquad (31).$$

Q = throughput,
$$\xi = 0.5 \text{ m R}^2 = \text{ARe}_1 (\text{R = radius of the pipe}),$$

$$m^2 = (\delta/44\lambda_w^2 \mu_w) (dp/dz)^2; \delta = 0.1 \left[\mu_w / \mu_{\text{m}} - 1 \right]; \mu_w = \text{viscosity at the}$$

Card 2/3

Effect of Dissipation of Mechanical Energy on the Hydraulic Resistance Coefficient for Laminar Flow in Tubes With Circular Cross Sections

S/152/60/000/012/006/007 B027/B068

temperature T_w of the tube-wall; λ_w = heat conductivity at T_w ; J = mechanical heat equivalent; D = 1/4 $1 - J_1'(ARe_1)/J_0(ARe_1)^2$ is the correction for energy dissipation; $A = n(\mu_w)^2/g_wR$; Re_1 = Reynolds number. The authors further develop the suggested solution with respect to various liquids and non-isothermal flow. There are 1 figure and 3 Soviet

ASSOCIATION: Kuybyshevskiy aviatsionnyy institut (Kuybyshev Aviation Institute)

SUBMITTED: February 23, 1960

Card 3/3

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S/147/61/000/001/002/016 B022/E135

AUTHORS:

Kudryashev, L.I., and Golovin, V.M.

TITLE:

On the Solution of Stability of the Laminar Flow of Viscous Fluids Flowing Between Flat Parallel Walls

PERIODICAL: Izvestiya vysahikh uchebnykh zavedeniy,

Aviatsionnaya tekhnika, 1961, No. 1, pp. 13-18

TEXT: The problem of stability of the laminar flow has attracted much research which indicates its importance both theoretically and practically. In spite of so much effort being spent on the problem it is not fully solved as yet, (Ref.1). The reason is the great mathematical complexity of the problem. Various simplifications made by some authors in order to enable this problem to be solved are sometimes questionable. One of the main shortcomings of the theoretical analysis of the problem is that in most cases heat transfer with the surroundings, as well as the heat effect produced by internal friction, are neglected. However, these two effects influence physical properties of the fluid and therefore the flow of the fluid must also be affected. It is basically erroneous to assume that these effects are

S/147/61/000/001/002/016 E022/E135

On the Solution of Stability of the Laminar Flow of Viscous Fluids Flowing Between Flat Parallel Walls

negligible supecially at higher velocities and at large Reynolds number values, when dealing with the stability of the laminar flow. The present work has as its object the evaluation of the effect of these factors, and for that reason the basic equations of motion include dependence of the physical parameters of the fluid on the temperature:

$$\frac{d\vec{v}}{dt} = e^{\vec{F}} - \text{grad } p + \mu \Delta \vec{v} + 2 \text{grad } \mu \cdot \dot{s} + \frac{1}{3} \mu \text{ grad div } \vec{v} - \frac{2}{3} \text{ div } \vec{v} \text{ grad } \mu,$$
(1)

$$\frac{d\rho}{dt} + \rho \, div \, \overline{v} = 0 \tag{2}$$

Card 2/4

S/147/61/000/001/002/016 E022/E135

On the Solution of Stability of the Laminar Flow of Viscous Fluids Flowing Between Flat Parallel Walls

$$I_{CC}\frac{dT}{dt} = I \operatorname{div}(\lambda \operatorname{grad} T) - p \operatorname{div} \overline{v} + 2\mu \cdot 5 - \frac{2}{3}\mu (\operatorname{div} \overline{v})^{2}$$
 (3)

where the symbols have their usual meaning, except: I - mechanical equivalent of heat; S - tensor of the velocity of deformation; $\lambda(T)$ - coefficient of heat conductivity. Employing the small perturbation method, the authors distinguish viscous and mon-wiscous instability at high Reynolds numbers. In the case of non-viscous instability the arguments of Lord Rayleigh (Ref. 3) and W. Tollmien (Ref. 4), viz. that the necessary and sufficient condition of non-viscous instability in a symmetric flow is simply the existence of the point of inflection in the velocity profile, still hold true. Stable solution of the syst of Eqs. (1) to (3) for the flow between two flat parallel plates Stable solution of the system is dealt with in earlier work of the authors (Ref. 5). present paper the authors extend the analysis by superimposing on In the the stable flow small disturbances and utilize the Rayleigh-**Card 3/4**

5/147/61/000/001/002/016 E022/E135

On the Solution of Stability of the Laminar Flow of Viscous Fluids Flowing Between Plat Parallel Walls

Tollmien criterion for the non-viscous instability. They arrive at the conclusion that the instability develops at some large value of Reynolds number, which is the upper critical Reynolds number, as given by:

$$\frac{3}{2} \qquad \sqrt{\frac{\mathbf{Pr_{W}}}{\mathbf{Fr_{T_{W}}} + \mathbf{T_{W}}} - 1} \mathbf{Pr_{W}}$$

$$\frac{3}{2} \cdot \mathbf{Re_{1}} \geqslant 0.807 \qquad (15)$$

where Pr = Prandtl number; Ga - Gallilleo number, K LT oc specific gradient of heat content.

There are 2 figures and 5 references; 2 Soviet and 3 non-Soviet.

ASSOCIATION: Kuybyshevskiy aviatsionnyy institut, Kafedra aerodinamiki (Department of Aerodynamics,

Card 4/4

Kuyhyshev Aviation Institute)

SUBMITTED:

July 1, 1960

8/152/61/000/003/003/003 B129/B201

AUTHORS:

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Kudryashev, L. I., Golovin, V. M.

TITLE:

Problem of the stability of the laminar motion of a viscous

liquid in circular cylindrical pipes

PERIODICAL:

Isvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 3,

1961, 107-112

TEXT: The authors studied the effect of the dissipative heating and heat exchange with the surrounding medium upon the stability of the laminar flow of a viscous liquid in circular cylindrical pipes. Using the theorem by Rayleigh-Tollmien, the nonviscous instability of the flow with respect to the hydrodynamic and thermal stabilization is shown, and the criterional inequality for the determination of the highest critical Reynolds' number is given. The problem of the stability of the laminar motion and its transition into turbulent motion is of theoretical and of practical importance. The explanation of all factors having an effect upon the stability of the laminar motion in one or the other direction is of importance both for the further elaboration of theoretical bases and also directly from Card 1/3

Problem of ...

S/152/61/000/003/003/003 B129/B201

the technical viewpoint, as it is associated with the possibility of reducing energy losses in the transport of liquids and gases. Therefore, a great number of theoretical and experimental studies has appeared since the publication of the first paper by O. Reynolds. Although the authors do not have the possibility, within the scope of the present paper, of dealing extensively with the consideration and the evaluation of the various papers, investigation methods, and results obtained, it is possible, however, to note certain deficiencies, which are quite essential, in their opinion, in the formulation of the problem. One may see from the mathematical formulation of the task that in most cases insufficient attention is devoted to the problems of the heat exchange of the liquid with the surrounding medium, its heating at the expense of the dissipation of the mechanical energy, and thus, of the change of its physical parameters with temperature. At the same time, this change is bound to have a considerable effect upon the characteristic of the motion. If neglecting these factors in the study of the motion with not too high Reynolds! numbers is still somehow justified, it is no more so in the analysis of the stability of a longer lasting laminar motion, especially as regards the problem of the presence of the highest critical Reynolds number. From this Card 2/3

Problem of ...

8/152/61/000/003/003/003 B1 29/B201

viewpoint the present work may be of some interest, inasmuch as the attempt is made to take into account the effect of the abovementioned factors. The authors have used formulas to examine the relationships between temperature, velocity, heat exchange, etc. between the liquids (petroleum, alcohols, water). Conclusions: Basing on the use of the total system of equations of hydrodynamics and heat exchange, and also of the theorems by Rayleigh-Tollmien, the authors show the nonviscous instability of the flow in the stabilized part (in hydrodynamic and thermal respects) of the circular cylindrical pipe, starting with a rather high upper critical Reynolds number. The criterional equation for the determination of the highest critical Reynolds number is given. There are 6 references: 1 Soviet-bloc and 5 non-Soviet-

ASSOCIATION: Kuybyshevskiy industrial'nyy institut imeni V. V. Kuybysheva

(Kuybyshev Industrial Institute imeni V. V. Kuybyshev)

SUBMITTED:

July 6, 1960

Card 3/3

KUDRYASHEV, L.I.; GOLOVIN, V.M.

Stability of the laminar flow of a viscous dripping liquid in circular cylindrical papes. Izv. vys. ucheb, zav.; neft' i gas 4 no.3: 107-112 tol. (MIRA 16:10)

1. Kuybyshavskiy industrial nyy institut im. V.V.Kuybyshava.

GOLOVIN .. VaM., insh.

Nonumiformity of density distribution in baled cotton fibers.
Tekst.prcm. 25 no.2:31-33 F *65. (MIRA 18:4)

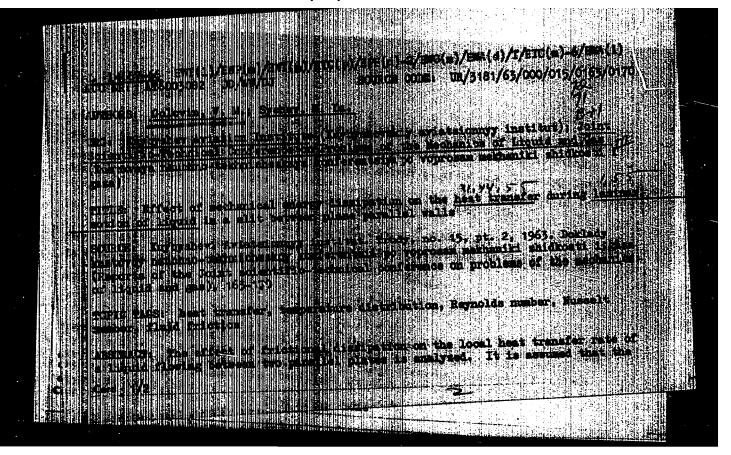
l. Mukovoditel' laboratorii pressovaniya TsNIKhProm.

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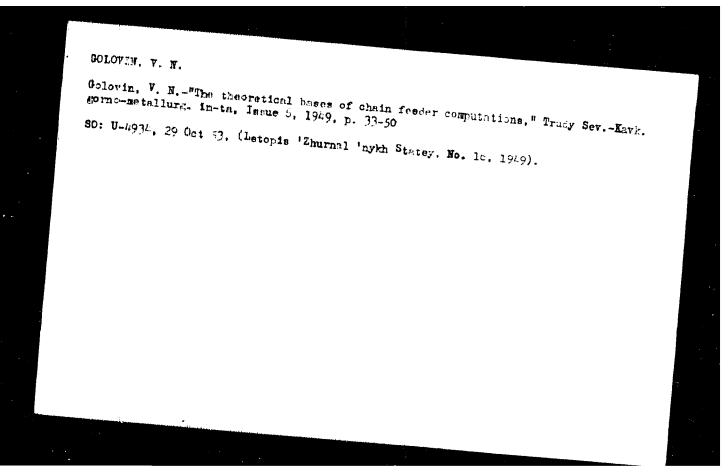
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BEHOVITSELY, G.Ye., COLOVIE, V.E.; SUEHDY, L.V.

Spring board used in recording sultiple scattering of particles in photographic emulsions. Frib. i tekh. eksp. no.1:102-105.

Jl.ag '56.

(NERA 10:2)

1. Fisicheskiy institut ineni P.B. Lebedeva Akademii nauk SSSE.

(Photomicrography) (Photography, Particle track)

GOLOVIN, V. M.

USSR/Muclear Physics - Installations and Instruments. Methods of Measurement and Research.

C-2

Abs Jour : Ref Ehur - Fizika, No 4, 1957, 8599

Author : Belovitskiy, G.Ye., Golovin, V.W., Sukhov, L.V. Inst : Physics Institute, Academy of Sciences, USSR. Title

Spring Stage for Measuring Multiple Scattering of

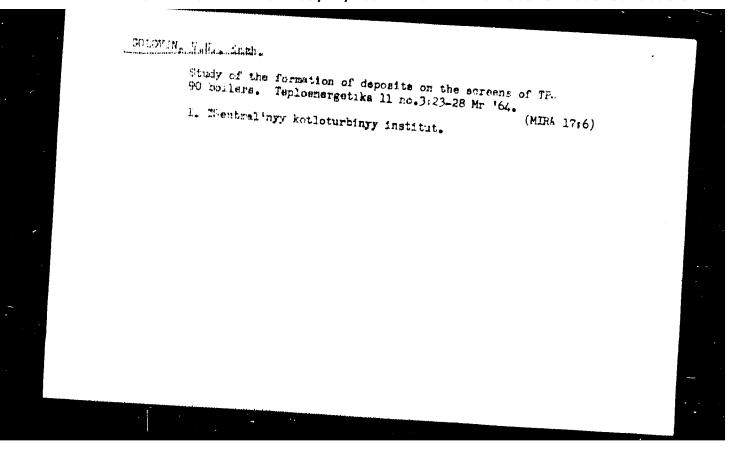
Farticles in a Photographic Emulsion.

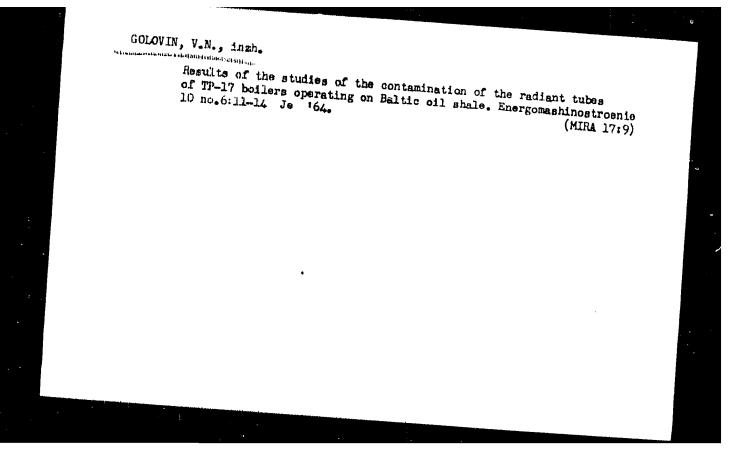
Orig Pub : Pribory i tekhn. eksperimenta, 1956, No 1, 162-165.

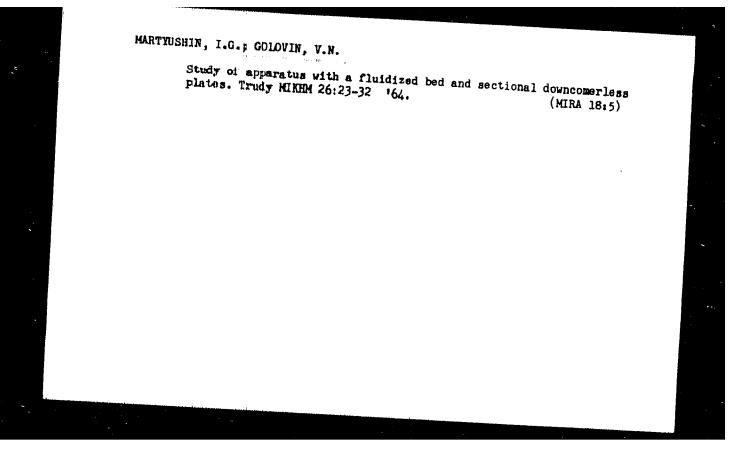
Abstract : Description of the construction of a spring stage, having very low noise level (~ 0.01 -- 0.03 /). The noise measurement occurring during vertical displacement of the objective is carried out, as is the measurement of thermal noise due to non-uniform heating of various parts of the microscope. Steps that permit substantial reduc-

tion of the thermal noise are proposed.

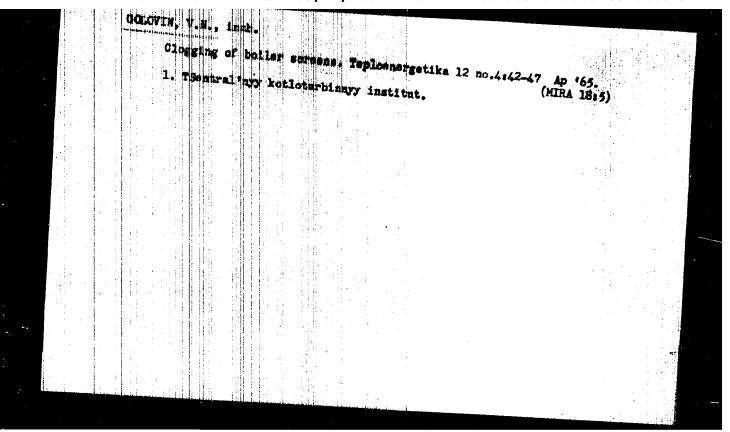
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ACC NR: AR6035067

SOURCE CODE: UR/0282/66/000/008/0036/0036

AUTHOR: Dytnerskiy, Yu. I.; Golovin, V. N.

TITLE: New method of separating liquid mixtures with the aid of polymer films by permeation

SOURCE: Ref. zh. Khimicheskoye i kholodil'noye mashinostroyeniye, Abs.

REF SOURCE: Khisa. 2-oy Mezhdunar, kongr. khim. inzh. tekhn., khim. oborud. i avtomat., Marianske Lazne, 1965 g. S. l., 1965, S2.6

TOPIC TAGS: polymer film, test method, mixture separation, CHEMICAL

ABSTRACT: The results of investigations on a method of separating liquids and gases of homogeneous mixtures with the aid of polymer films are reported. [Translation of abstract]

SUB CODE: 11, 07/

Card 1/1

UDC: 66.048.001.2

SHCHERBA, M.L. prof.; SMIRTOVA, Z.A.; GOLOVII, V.P.

Clinical variations of amyloidesis. Sov. med. 27 no.11:19-24
N **163

Le propedavticheskoy terapevticheskoy kliniki (ispelnyayushchir obyanannesti zaveduyushchego - prof. M.L. Shcherba)
I heningradskogo meditsinskogo instituta imeni I.P.Pavlova
i Leningradskoy oblastney klinicheskoy bolinitsy (glavnyy
vrach V.M.Sukhobskiy).

L 07559-67 IJP(e) ACC NR: AT6029317 JGS/WW/GD SOURCE CODE: UR/0000/66/000/000/0156/0166. AUTHOR: Labunstov, D. A.; Kol'chugin, B. A.; Golovin, V. S.; Zakharova, E. A.; ORG: none 69 B+1 TITLE: Investigation of the mechanism of the nucleate boiling of water using high speed moving picture photography SOURCE: Moscow. Energeticheskiy institut. Teploobmen v elementakh energeticheskikh ustanovok (Heat exchange in power installation units). Moscow, Izd-vo Nauka, 1966, TOPIC TAGS: nucleate boiling, high speed photography, heat transfer coefficient ABSTRACT: The experiments were carried out on a 2-shaped silver plate. The specific heat loads in the experiments varied from 40×10^3 to 150×10^3 watts/m², and the pressure from 1 to 100 bars. The article describes the results of an investigation of the following characteristics of the boiling mechanism: the magnitudes of the bubble densities on the heating surfaces, the values of the breakaway diameters, the macroscopic houndary angles, and the average frequency and rate of growth of the bubbles on the boiling surface. The experimental apparatus consisted of a vertical cylindrical vessel with a removable cover and a condenser. The experimental section Card 1/2

1. 07559-67 ACC NR: AT6029317

was a 99.99% silver plate bent at a right angle, having a thickness of 0.2 mm and a width of 2 mm, and placed on its wide edge. The load on the plate was created by a low voltage direct current. Before the experiments, the surface was given a special preparatory treatment, after which it had a cleanness of Class 8b, GOST 2789-51. The working fluid was distilled water with a salt content of 0.2-0.5 grams/m. Two series of experiments were made; one on freshly prepared surfaces and the other on surfaces which had been used. The experimental heat transfer data are shown in a table. The surfaces which had been used were lower than those for freshly prepared surfaces; 2) there was observed a sharp decrease in the breakaway diameter with an increase in pressure; 3) the rate of growth of the bubbles slowed down sharply with an increase in pressure; 4) the average macroscopic boundary angles changed only slightly with an increase in pressure. Orig. art. has: 17 formulas, 11 figures and 1 table.

SUB CODE: 20/ SUBH DATE: 05Apr-66/ ORIG REF: 010/ OTH REF: 013

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L 3115-66 ENT(m)/ENP(1)/T W/JV/VR/RM ACC NR. AP6008837 SOURCE

SOURCE CODE: UR/0294/66/004/001/0147/0148

AUTHOR: Golovin, V. S.; Kol'chugin, B. A.; Zakharova, E. A.

34

ORG: Power Institute im. G. M. Krzizhanovskiy (Energeticheskiy institut)

R

TITLE: Measurement of the rate of growth of vapor bubbles during the boiling of various liquids

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 1, 1966, 147-148

TOPIC TAGS: boiling benzene, ethyl alcohol, water, vaporization, gas bubble

ABSTRACT: The authors obtained data on the rate of growth of vapor bubbles on the heat-transfer surface during the boiling of benzene. ethyl alcohol, and water for different thermal loads and saturation pressures in an experimental set-up described elsewhere (D. A. Labuntsov, B. A. Kol'chugin, V. S. Golovin, E. A. Zakharova, L. N. Vladimirova. Teplofizika vysokikh temperature, 2, No. 3, 446, 1964). The experiments were performed with strips of silver and nickel-plated copper, using the methods of the earlier work. The results of the primary processing of motion picture data showed that, for all the cases investigated, the relationship $R \sim r/h$ (where R is the vapor bubble radius, T is the time of its growth on the boiling surface) is revealed quite distinctly. This made it possible to calculate the values R/Y, which are tabulated for various liquids and mode parameters. These data, together with the results of the earlier work, obtained during the boiling of water on a silver strip are shown in a diagram. The new data confirm the fundamental conclusions of the earlier work. Orig. art. has: 1 figure, 1 table, and 1 formula.

UDC 536.423.1